EXPRESS MAIL LABEL NO.: EV 176 414 040 US DORAN-2

CLAIMS

What is claimed is:

1. A coupling arrangement for coupling a motor to a hoist machine, the motor having a shaft extending in a direction normal to the motor face, the coupling arrangement comprising:

a first drum flange comprising an outer body having a first end and a second end, an inner wall surface defining a cavity of substantially circular cross section, the cavity having a given diameter along a first length of the body, and of reducing diameter along a second length of the body, the flange adapted to receive at said first end a tapered bushing of increasing diameter and dimensioned such that, upon insertion of the bushing within the body a given length, the bushing frictionally engages with the inner wall surface of reducing diameter for retention therein; the bushing having a central cavity for receiving the shaft of the motor and means for securing onto the shaft; and

wherein the first end of the drum mount flange is coupled directly to a portion of a brake drum within an interior portion of the hoist machine, and wherein the motor face is coupled to an outer portion of the hoist machine.

- 2. The coupling arrangement of claim 1, wherein the hoist machine is an elevator hoist machine.
- 3. The coupling arrangement of claim 1, wherein the means for securing comprises set screws for engaging corresponding threaded bores in said body and slots in said bushing.

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- 4. The coupling arrangement of claim 1, wherein the first end of said drum mount flange body includes threaded holes alignable with corresponding holes in said brake drum for receiving a securing rod for connecting said drum mount flange to said hoist machine.
- 5. The coupling arrangement according to claim 1, wherein the motor is a single bearing motor.
 - 6. A method for coupling a motor onto a hoist machine, comprising:

providing a drum mount flange member having an outer body with a first end and a second end, an inner wall surface defining a cavity of substantially circular cross section, the cavity having a given diameter along a first length of the body, and of reducing diameter along a second length of the body;

inserting into said first end a tapered bushing of increasing diameter a distance sufficient to cause the bushing to frictionally engage with the inner wall surface of reducing diameter so as to be retained therein;

securing the bushing to a shaft of the motor; and securing the first end of the drum mount flange to the hoist machine.

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